



TB Treatment Outcome among TB/HIV co-infection and associated factors in Anambra State Nigeria

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Background: Tuberculosis and HIV are among the challenging infectious diseases facing mankind as of today. Nigeria is among the high burden countries for TB & HIV in the world. TB and HIV patients usually encounter barriers to effective treatment ranging from poverty, ignorance, stigma, and discrimination in resource-limited countries.

The objective is to identify factors associated with negative TB treatment outcomes (Loss-to-Follow Up, Death, Treatment Failure) among PLHIV.

Materials and Methods: This was a retrospective cohort study of Drug Susceptible Tuberculosis (DSTB) cases (1666) notified in 2021 in the private and faith-based health facilities in Anambra State Nigeria. Logistic regression and Chi Square analysis were done.

Conclusion: As both TB and HIV impact on each other progression, TB/HIV co-infection increases the risk of negative outcome. Our finding can help TB and HIV clinics tailor their programming for improved treatment outcomes.

Results: Among the cases, 197(12%) were co-infected comprising of 51% male. 30(15%) of the co-infected patients had negative TB treatment outcomes as against 10% among the HIV negative DSTB patients. Analysis showed that previous history of TB has increased risk of negative outcome with odd ratio, 3.18(95% Confidence interval (CI): 2:89 - 3.52)). Other associated variables with significant odds to negative outcome include accessing anti-TB medicines and antiretroviral therapy (ART) at different health facilities 1.72(95% CI: 1:48 - 2.16) and refusal to home visit for TB contact investigation 1.46 (95% CI: 1.22 - 1.84). No functional phone details, distance to health facility, sex and occupation were also predictors of increased risks of negative outcome.



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Chukwuemeka is a passionate, dynamic and disciplined medical professional with over 10 years' experience in public health programs and clinical practice. Adept in program planning, implementation and management, operational & implementation research, capacity building, training facilitation, monitoring and evaluation, disease surveillance and supply chain management. I have a MBBS degree with MSc. public health, currently working with the Institute of Human Virology Nigeria (IHVN). A strong leader with excellent communication skills and verifiable track records of achievements.